53 AWS EC2 interview questions to ask your candidates

Questions

1. What is Amazon EC2 and how does it differ from traditional hosting?

2. Can you explain the concept of instances and instance types in EC2?

3. What are the different pricing models available for EC2 instances?

4. How do you monitor the performance of your EC2 instances?

5. What are security groups in EC2, and how do they work?

6. Explain the difference between EBS and instance store.

7. How can you scale EC2 instances to handle varying loads?

8. What is an AMI and what role does it play in launching an EC2 instance?

9. How do you secure your EC2 instances against unauthorized access?

10. What are the steps to take a snapshot of an EBS volume?

11. Can you describe the process of launching an EC2 instance?

12. What is the difference between vertical scaling and horizontal scaling in EC2?

13. How can you automate the deployment of EC2 instances?

14. What are IAM roles and how do they relate to EC2 instances?

15. How do you handle data backups for EC2 instances?

16. What tools or services can you use to manage multiple EC2 instances effectively?

17. Can you explain the key benefits of using Amazon EC2 for cloud computing?

18. How do you manage the lifecycle of an EC2 instance?

19. What strategies would you use to optimize costs when using EC2 instances?

20. How do you ensure high availability for applications running on EC2?

21. What steps would you take to troubleshoot a non-responsive EC2 instance?

22. How can you enhance the security of your EC2 instances?

23. What are the common use cases for EC2 Auto Scaling?

24. How would you handle a situation where your EC2 instance is experiencing high latency?

25. Can you explain how EC2 Spot Instances work and what are their advantages?

26. What is the difference between an Elastic IP and a regular public IP address in EC2?

27. How do you use Elastic Load Balancing with EC2 to ensure better application performance?

28. What steps would you take to migrate an on-premise application to AWS EC2?

29. How do you handle EC2 instance termination protection?

30. Describe the process of attaching an EBS volume to a running EC2 instance.

31. What are the benefits and drawbacks of using EC2 Dedicated Hosts?

32. How do you configure user data and metadata for an EC2 instance?

33. Can you explain the concept of EC2 Reserved Instances and when you would use them?

34. How do you implement fault tolerance and redundancy for your EC2 instances?

35. What strategies can you use to manage EC2 instance state transitions effectively?

36. How do you optimize the performance of an EC2 instance for a database workload?

37. How does VPC (Virtual Private Cloud) work with EC2?

38. Explain the role and benefits of using an Elastic IP with EC2 instances.

39. What are Network ACLs and how do they differ from Security Groups in AWS EC2?

40. How can you protect your EC2 instances against DDoS attacks?

41. What is a Bastion Host and how is it used in securing EC2 instances?

42. How does AWS Direct Connect enhance network security for EC2 instances?

43. What is the Shared Responsibility Model in AWS, and how does it apply to EC2 security?

44. How would you approach resizing an EC2 instance without data loss?

45. Explain the process of creating a custom AMI from a running EC2 instance.

46. What steps would you take to migrate an EC2 instance to a different AWS region?

47. How can you schedule automatic start and stop times for EC2 instances?

48. Describe the process of attaching multiple network interfaces to an EC2 instance.

49. What strategies would you use to optimize the boot time of an EC2 instance?

50. How do you handle EC2 instance recovery in case of an underlying hardware failure?

51. Explain the process of setting up cross-region replication for EC2 instances.

52. How would you implement automated patching for a fleet of EC2 instances?